

THIS PROJECT INVOLVES THE CONSTRUCTION OF A NEW TRAFFIC SIGNAL AT MD ROUTE 2 AND PROPOSED EAST-WEST BOULEVARD/PASADENA ROAD AND THE REMOVAL OF THE EXISTING TRAFFIC SIGNAL AT MD ROUTE 2 AND PASADENA ROAD/WEST PASADENA ROAD. IN ADDITION, INTERCONNECT SHALL BE INSTALLED ON MD ROUTE 2 BETWEEN THE PROPOSED SIGNAL AND MD 10 TO THE NORTH, AND MAGOTHY BRIDGE ROAD/EARLEIGH HEIGHTS ROAD TO THE SOUTH. MD ROUTE 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

I. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SEVEN-PHASE, FULL-TRAFFIC ACTUATED MODE WITH MD ROUTE 2 APPROACHES RUNNING CONCURRENTLY AND EAST-WEST BOULEVARD/PASADENA ROAD APPROACHES RUNNING CONCURRENTLY. EXCLUSIVE LEFT TURN PHASING WILL BE PROVIDED FOR MD ROUTE 2 AND EAST-WEST BOULEVARD. PASADENA ROAD LEFT TURN WILL BE PERMISSIVE ONLY. THE INTERSECTION WILL HAVE SPECIAL BUS PRE-EMPTION FOR MD ROUTE 2 NORTHBOUND AND SOUTHBOUND.

INSTALL A FULL-TRAFFIC ACTUATED, EIGHT PHASE CONTROLLER WITH FOUR (4) FOUR-CHANNEL, TIME-DELAY LOOP DETECTOR AMPLIFIERS, INTERSECTION MONITOR WITH BATTERY BACK-UP, TELEMETRY MODULE, ISOLATION BOARD, HOUSED IN A NEMA SIZE *6" BASE MOUNTED CABINET.

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THE POWER COMPANY REPRESENTATIVE IS:
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A,B } 2-CONDUCTOR ELECTRICAL CABLE
(ALUMINUM SHIELDED, 14 A.W.G.)

B,C } 7-CONDUCTOR ELECTRICAL
CABLE (14 A.W.G.)

D,E } 5-CONDUCTOR ELECTRICAL
CABLE (14 A.W.G.)

EF - EXISTING FEED

LW - LOOP WIRE








DISCONNECT THE EXISTING LOOP DETECTOR AND SPLICE THE NEW LOOP DETECTOR TO THE EXISTING 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)


1 2 3 4 5 6 7 8 9 10 11 12 13 14

(R) (R) (R) (R) (X) (R) (R) (R) (R) (X) (R) (R) (R) (R)

(Y) (Y) (Y) (Y) (X) (Y) (Y) (Y) (Y) (X) (Y) (Y) (Y) (Y)

(G) (G) (G) (G) (X) (G) (G) (G) (G) (X) (G) (G) (G) (G)

PHASE 1 + 5	◄G-	◄G-	R	R	DARK	◄G-	◄G-	R	R	DARK	R	R	R	R	
1 + 5 CHANGE	►Y-	►Y-	R	R	DARK	►Y-	►Y-	R	R	DARK	R	R	R	R	
PHASE 1 + 6	◄G-	◄G-	R	R	DARK	◄R-	◄R-	G	G	DARK	R	R	R	R	
1 + 6 CHANGE	►Y-	►Y-	R	R	DARK	◄R-	◄R-	Y	Y	DARK	R	R	R	R	
PHASE 2 + 5	◄R-	◄R-	G	G	DARK	◄G-	◄G-	R	R	DARK	R	R	R	R	
2 + 5 CHANGE	◄R-	◄R-	Y	Y	DARK	►Y-	►Y-	R	R	DARK	R	R	R	R	
PHASE 3 + 8	◄R-	◄R-	G	G	DARK	◄R-	◄R-	G	G	DARK	R	R	R	R	
3 + 8 CHANGE	◄R-	◄R-	Y	Y	DARK	◄R-	◄R-	Y	Y	DARK	R	R	R	R	
PHASE 4 + 8	◄R-	◄R-	R	R	DARK	◄R-	◄R-	R	R	DARK	G	G	G	G	
4 + 8 CHANGE	◄R-	◄R-	R	R	DARK	◄R-	◄R-	R	R	DARK	Y	Y	Y	Y	
FLASHING OPERATION	FL/◄R-	FL/◄R-	FL/R	FL/R	DARK	FL/◄R-	FL/◄R-	FL/Y	FL/Y	DARK	FL/R	FL/R	FL/R	FL/R	 

BUS PRE-EMPTION PHASE I	BUS PRE-EMPTION	←R-	←R-	R	R		←R-	←R-	G	G	DARK	R	R	R	R	
	PHASE I CHANGE	←R-	←R-	R	R		←R-	←R-	G	G	DARK	R	R	R	R	

BUS PRE-EMPTION PHASE 2	BUS PRE-EMPTION	←R-	←R-	G	G	DARK	←R-	←R-	R	R		R	R	R	R	←
	PHASE 2 CHANGE	←R-	←R-	G	G	DARK	←R-	←R-	R	R		R	R	R	R	←

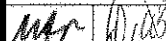
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
8014	6 L.F.	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8016	8 L.F.	FURNISH AND INSTALL 1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.
8019	1 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE.
8026	750 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG).
8031	900 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED).
8032	60 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO 14 AWG)
8034	1220 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 AWG).
8035	425 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8054	12 L.F.	FURNISH AND INSTALL 1 INCH GALVANIZED STEEL ELECTRICAL CONDUIT FOR DETECTOR SLEEVE
8055	1 EA	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC 90 DEGREE BEND IN EXISTING POLE BASE
8061	6 EA.	RELOCATE SIGNAL HEAD - ANY TYPE
8062	24 S.F.	RELOCATE SIGNS
8063	1 EA.	FURNISH AND INSTALL LOOP DETECTOR SPLICE

**RK
&K** **RUMMEL, KLEPPER
& KAHL, LLP**
CONSULTING ENGINEERS

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REVISIONS		APPROVALS	
		<div style="text-align: center;"> <div>ORIGINAL</div> <div>FILE</div> </div>	
		TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION	
		ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION	
		CHIEF TRAFFIC ENGINEERING DESIGN DIVISION	
		DIRECTOR, TRAFFIC & SAFETY	
(E) RECONSTRUCT TRAFFIC SIGNAL DUE TO NEW GEOMETRICS 10/99 			
D ADDED BUS PRE-EMPTION			
6/95			

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

SIGNAL PLAN FOR

MD RTE. 2 @ EAST-WEST BLVD. AND PASADENA RD.

EAST-WEST BLVD

FROM JUMPERS HOLE RD. TO 600 FT. EAST OF MD. RTE. 2

DRAWN BY: SMH	F.A.P. NO. _____	SEE TITLE SHEET	TS NO. _____
CHECKED BY: DLA <i>CS</i>	S.H.A. NO. _____	N/A	307E
SCALE: NO SCALE	COUNTY: ANNE ARUNDEL		T.I.M.S. NO. _____
DATE: NOVEMBER, 1999	LOG MILE: 02000232.03		C937
			SHEET NO. 64 OF 78